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MIDMARK®

Installation and Operation Manual

Model 411 Power Medical Examination Table

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FOR YOUR PROTECTION

THESE GOODS LEFT OUR FACTORY IN PERFECT ORDER and we hold the Carrier's Receipt for them in this condition.

IF THESE GOODS ARE DAMAGED in Transit, such damaged goods should either be refused, or not accepted until the Transportation Company's Agent has noted on the freight bill, which he will give you, the nature and extent of the damage. He is required to do this. In the same manner, if any goods are LOST in transit, have the shortage noted on the freight bill by the agent.

CONCEALED DAMAGE. If there should be damage of such nature that it could not be detected until the goods were unpacked have the Transportation Company's Agent call AT ONCE and inspect them. Require him to give you a "concealed" bad order report, stating the condition of the goods when examined. It is his duty to do this and you should INSIST upon it.

IF THE ABOVE INSTRUCTIONS ARE COMPLIED WITH we shall cheerfully render all possible assistance in establishing claims against the Transportation Companies for loss and damage in transit.

WE DO NOTACCEPTGOODS RETURNED FOR CREDIT, EXCHANGE, REPAIRS, orforanyother reason, unless you have first communicated with us and secured our written permission.

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IMPORTANT INSTRUCTIONS

SAFETY FIRST: The primary concern of Midmark Corporation is that this equipment be operated and maintained with the safety of the patient and doctor in mind. To assure safer and more reliable operation:

1. Read this manual before installing or operating your equipment.
2. It is the responsibility of the purchaser to assure that appropriate personnel are informed of the contents of this manual.
3. Be sure that you understand the instructions contained in this manual before attempting to install or operate this equipment.
4. This manual should remain permanently affixed to this equipment.

Throughout this manual are "Notes," "CAUTIONS,"and **"DANGER"** warnings that call attention to particular procedures. The items are used as follows:

Note

A note is used to amplify an operating procedure, practice, or condition.

CAUTION

A CAUTION IS USED FOR AN OPERATING PROCEDURE, PRACTICE, OR CONDITION WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN EQUIPMENT DAMAGE.

DANGER

A DANGER IS USED FOR AN OPERATING PROCEDURE, PRACTICE, OR CONDITION WHICH, IF NOT CORRECTLY FOLLOWED, COULD RESULT IN PERSONAL INJURY.

For your personal safety and that of your patients, all **DANGER** warnings are repeated here. Become thoroughly familiar with them and observe them at all times.

1. **DO NOT LIFT AT POINTS B, FIG. 1. THESE POINTS ARE NOT SUPPORTED AREAS. LIFTING AT THESE POINTS COULD CAUSE PERSONAL INJURY OR DAMAGE TO THE TABLE (Page 4).**
2. **DO NOT USE STIRRUPS TO LIFT OR MOVE TABLE. USING THE STIRRUPS FOR THIS PURPOSE COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE (Page 4).**
3. **USE 115 VOLT, 60 HERTZ ALTERNATING CURRENT ONLY. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE(Page** 4).
4. **DO NOT USE THIS TABLE IN AN EXPLOSIVE OR OXYGEN-ENRICHED ATMOSPHERE. USING THE TABLE IN THESE SITUATIONS COULD CAUSE PERSONAL INJURY OR EQUIPMENT DAMAGE (Page** 4).
5. **ALL EXPOSED METAL PARTS OFTABLE ARE ELECTRICALLY GROUNDED. WHEN PERFORMING A CAUTERIZATION OR SIMILAR TREATMENT, PATIENT MUST BE INSULATED FROM THE METAL PORTIONS OF THE TABLE BY NON-CONDUCTIVE MATERIAL. FAILURE TO DO THIS COULD RESULT IN ELECTRICAL SHOCK OR BURNS TO THE PATIENT (Page 4).**
6. **IF THE TABLE MALFUNCTIONS, IMMEDIATELY REMOVEYOURFOOTFROMTHECONTROLSWITCH, UNPLUG THE POWER CORD FROM THE WALL RECEPTACLE, AND ASSIST THE PATIENT FROM THE CHAIR (Page 5).**
7. **KEEP ALL FOREIGN OBJECTS AWAY FROM THE FOOTSWITCH SO THAT THE PEDALS ARE NOT ACCIDENTALLY ACTIVATED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE TABLE (Pages 5 & 7).**
8. **KEEP YOUR ARMS AND LEGS AND YOUR PATIENT'S ARMS AND LEGS CLEAR OF ALL MOVING PARTS WHEN CHANGING TABLE POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY (Page 5.)**
9. **BE SURE ALL PERSONS AND EQUIPMENT ARE CLEAR OF TABLE BEFORE ACTUATING AUTO RETURN. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE (Page 6).**
10. **FAILURE TO LOCK THE KNEE REST SUPPORT INTO POSITION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE (Page 7).**
11. **FAILURE TO ENGAGE LATERAL LOCKING MECHANISM COULD RESULT IN PERSONAL INJURY (Page** 7).
12. **FAILURE TO PERFORM A PERIODIC INSPECTION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE (Page 9).**

WARRANTY

IMPORTANT: FILL OUT AND MAIL THE WARRANTY REGISTRATION CARD WITHIN 7 DAYS AFTER DELIVERY OF YOUR MODEL 411 TABLE. Your Model 411 is warranted for a period of 12 months from date of delivery as specified in the "LIMITED WARRANTY" printed on the back cover. Warranty claims will be handled promptly when the Warranty Card is on file at Midmark. In the event of equipment failure, immediately contact the authorized Midmark dealer who sold you the equipment. He will make the necessary warranty repairs. Do not attempt to disassemble or substitute parts of another manufacturer. Such action will void the warranty and may render operation of the equipment unsafe. THE "LIMITED WARRANTY" PRINTED ON THE BACK COVER OF THIS MANUAL IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF THE COMPANY.

INSTALLATION AND OPERATION MANUAL FOR THE 411 POWER MEDICAL EXAMINATION TABLE

GENERAL OPERATION AND CARE OF EQUIPMENT

INTRODUCTION

This manual covers complete instructions for the installation, operation, and normal care of Model 411 Medical Examination Table.

For the purpose of this manual, the word TABLE is synonymous with the word CHAIR.

This table has been designed to help reduce effort and work fatigue involved in the examination and treatment of an ever-increasing number of patients during the doctor's normal working day.

The height of the table, the angle of the table top, and the upper section of the table top are easily adjusted by the use of an electromechanical power unit. Height of the table can be adjusted from 25-314" to 41-5/8". The angle of the table top may be varied from horizontal to 42°, and the upper portion of the table top can be adjusted from horizontal to a full chair position. The foot/leg support may be adjusted from horizontal or vertical positions. The combination of these four motions provides a table which can not only be tailored to meet the individual doctor's requirements, but will meet the requirements of most examinations and treatments being performed in the doctor's off ice today.

The 411 table has a table mounted control console, a Pendant hand control, as well as a footswitch (optional) to control table adjustments. There is also an "Auto Return" feature which lowers the base function to its minimum height with a momentary touch of a button. The table can be programmed to return to any of the eight positions the doctor so desires. The program function can be controlled by either the table mounted control console or the Pendant hand control.

UNPACKING AND INSTALLATION

UNPACKING: To avoid damaging the table's upholstered top or side panels, do not use a knife or other sharp object to open the packaging when unpacking. Unbolt the table from the wooden shipping skid by removing four (4) bolts on the underside of the base, one at each corner. After unbolting, remove the chair from the skid, lifting only at Points A, Fig. 1.

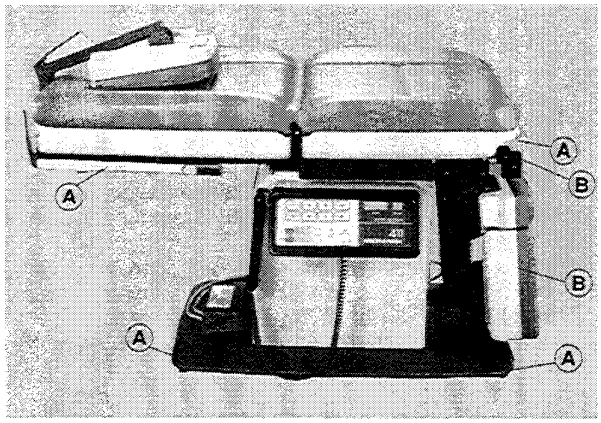

FIG. 1

LEVELING: A leveling screw is located under each corner of the table base. By adjusting these in or out, a level, solid installation can be achieved on uneven floors.

DANGER

1. **DO NOT LIFT AT POINTS B, FIG. 1. THESE POINTS ARE NOT SUPPORTED AREAS. LIFTING AT THESE POINTS COULD CAUSE PERSONAL INJURY OR DAMAGE TO THE TABLE.**

2. **DO NOT USE STIRRUPS TO LIFT OR MOVE TABLE. USING THE STIRRUPS FOR THIS PURPOSE COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.**

3. **USE 115 VOLT, 60 HERTZ ALTERNATING CURRENT ONLY. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.**

4. **DO NOT USE THIS TABLE IN AN EXPLOSIVE OR OXYGEN-ENRICHED ATMOSPHERE. USING THE TABLE IN THESE SITUATIONS COULD CAUSE PERSONAL INJURY OR EQUIPMENT DAMAGE.**

5. **ALL EXPOSED METAL PARTS OF TABLE ARE ELECTRICALLY GROUNDED. WHEN PERFORMING A CAUTERIZATION OR SIMILAR TREATMENT, PATIENT MUST BE INSULATED FROM THE METAL PORTIONS OF THE TABLE BY NON-CONDUCTIVE MATERIAL. FAILURE TO DO THIS COULD RESULT IN ELECTRICAL SHOCK OR BURNS TO THE PATIENT.**

ELECTRICAL: The electrical rating for the Model 411 table is 115 VAC, 60 Hertz, 12 Ampere. The three-pronged grounding plug on the table power cord must be inserted into a matched three-pronged, **GROUNDED, NON-ISOLATED, CORRECTLY POLARIZED,** 115-volt receptacle.

The single table power cord provides power for both the electromechanical actuators and the duplex receptacle located at the rear base of the table.

OPERATION OF TABLE POWER FEATURES

For optimal performance, allow the table to reach room temperature before operating.

Note

This equipment is not designed for continuous operation. If the unit is operated continually, a thermal overload switch will shut off the table motor. If normal operation ceases, immediately remove your foot or hand from the control switch. The overload switch will automatically reset after the motor cools (minimum 10 minutes).

The 411 table motors are also individually fused to protect the operator as well as the table. Should the unit fail to start after a cool down period, contact an authorized service center to investigate the cause of the failure.

DANGER

IF THE TABLE MALFUNCTIONS, IMMEDIATELY REMOVE YOUR FOOT OR HAND FROM THE CONTROL SWITCH, UNPLUG THE POWER CORD FROM THE WALL RECEPTACLE, AND ASSIST THE PATIENT FROM THE TABLE.

Note

Control Disable Switch: A control disable switch which interrupts power to the program control console, Pendant hand control, and optional footswitch IS located under the control console (Fig. 5, Item #A). When the switch is on, all controls should respond to the touch and a red "Control Panel Power" light should be illuminated (Fig. 3, Item #D).

CAUTION

THIS SWITCH DOES NOT TURN OFF POWER TO COMPONENTS INSIDE THE TABLE OR TO THE EXTERNALLY MOUNTED DUPLEX RECEPTACLE.

TABLE MOUNTED CONSOLE and PENDANT HAND CONTROLS (Fig.'s #3-4): These units can be used to manually actuate all four table functions. They can also be used to program up to eight table positions and then used to return to each programmed position.

FOOTSWITCH (OPTIONAL): A cord-connected foot control may be purchased as an option (Fig. #2). The foot control will operate all four table functions and is designed for operator comfort.

DANGER

KEEP ALL FOREIGN OBJECTS AWAY FROM THE FOOTSWITCH SO THAT THE PEDALS ARE NOT ACCIDENTALLY ACTIVATED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE TABLE.

DANGER

KEEP YOUR ARMS AND LEGS AND YOUR PATIENT'S ARMS AND LEGS CLEAR OF ALL MOVING PARTS WHEN CHANGING TABLE POSITIONS. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY.

PATIENT POSITIONING - MANUAL CONTROL

ADJUSTMENT OF TABLE HEIGHT: To raise table, depress button labeled "Table Up" on control console (Fig. 3, Item #A), or button labeled "Table Up" on hand control (Fig. 4). On optional footswitch, depress left side of footswitch pedal marked "Table Up," (Fig. 2). Hold button or pedal down until table reaches desired height or maximum height is achieved.

To lower the table, depress button marked "Table Down" on either control console or hand control. On optional footswitch depress right side of pedal marked "Table Down." Hold control down until table reaches desired height or minimum height is achieved.

DO NOT hold control switch down after the table has reached the extreme low or extreme high position. Operation of the table for an extended period of time at either of these positions will overheat the motor.

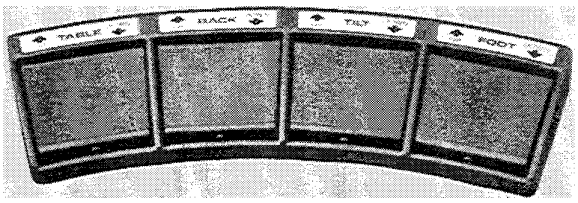

FIG. 2

ADJUSTMENTOFTHE BACK SECTION: To raise the upper portion of the table backrest from the horizontal to chair position, depress the button or left side of the footswitch pedal marked "Back Up" and hold control down until the desired position is obtained or the chair position is achieved.

To lower the table backrest, depress the button or right side of the footswitch pedal marked "Back Down" and hold control down until the desired position is obtained or the minimum position is achieved.

DO NOT hold control switch down after either of the extreme positions has been reached. Extended operation of the motor at either of these positions will overheat the motor.

ADJUSTMENT OF THE TABLE TOP ANGLE: To tilt the table top, depress the button or left side of footswitch pedal marked "Tilt Up" and hold control down until the desired degree of tilt is obtained or the maximum tilt is reached.

To bring the seat section back into the horizontal position, depress the button or right side of the footswitch pedal marked "Tilt Down" and hold control down until the desired position is obtained or the horizontal position is achieved.

DO NOT hold control switch down after either of the extreme positions has been reached. Extended operation of the motor at either of these positions will overheat the motor.

ADJUSTMENT OF THE FOOT/LEG REST SUPPORT: To raise the foot/leg rest support from vertical to horizontal position, depress the button or left side of footswitch pedal marked "Foot Up" and hold control down until the desired position is obtained or the horizontal position is achieved.

To lower foot/leg rest support from horizontal to vertical position, depress the button or right side of footswitch pedal marked "Foot Down" and hold control down until the desired position is obtained or the vertical position is achieved.

DO NOT hold control switch down after either of the extreme positions has been reached. Extended operation of the motor at either of these positions will overheat the motor.

Note

A safety switch prevents operation of the foot/leg rest when the irrigation pan is extended. Should operation of the power foot/ leg rest be impossible, check that the irrigation pan is in its fully stored position (Fig. 11, item #A).

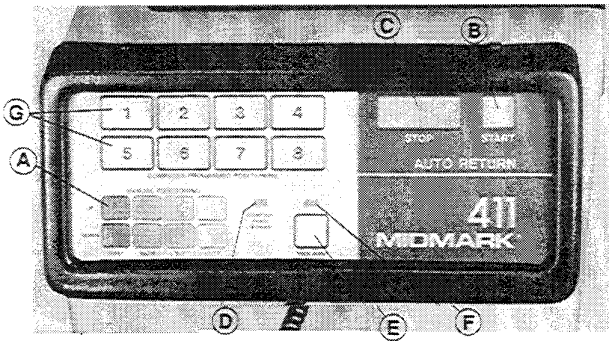

FIG. 3

AUTOMATIC RETURN: The "Auto Return" will lower the table base to its lowest position with a momentary touch of a button. To actuate the "Auto Return" feature with the base in any raised position, press the green button located on the upper right-hand corner of the control console (Fig. 3, Item #B). The table will begin to lower.

DANGER

BE SURE ALL PERSONS AND EQUIPMENT ARE CLEAR OF TABLE BEFORE ACTUATING AUTO RETURN. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.

If for any reason "Auto Return" must be stopped, press red button marked "Stop" located in upper right-hand corner of control console (Fig. 3, Item #C).

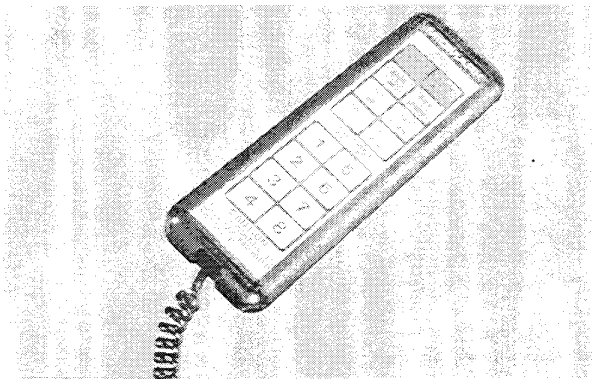

FIG. 4

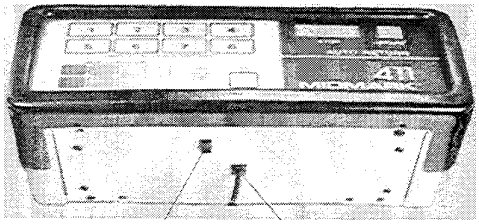

FIG. 5

PATIENT POSITIONING

PROGRAMMABLE CONTROL

The 411 table can be programmed to keep up to eight doctor specified positions in its computer memory. Once the position is placed in memory, only one button must be pushed to simultaneously operate all four motions of the table allowing quick positioning for frequently performed procedures.

PROGRAMMING THE TABLE: To store a table position in the computer memory, the following steps must be taken:

1. Using either the control console (Fig. 3, Item ##A), Pendant hand control (Fig. 4), or optional footswitch (Fig. 2), move the table to the desired position to be placed in the computer memory.

2. Press the yellow "Program" button (Fig. 3, Item #E). A red light will glow (Fig. 3, Item #F) indicating the computer will now accept a position into memory.

3. Press one of the blue "Programmed Position" buttons (Fig. 3, Item #G). From now on that button will move the table to the position it is now in.

Should the doctor wish to change a "Programmed Position," simply repeat Steps l-3 above. The old memory position will be replaced by the new.

If the yellow "Program" button (Fig. 3, Item #E) has been inadvertently pushed and no program change is intended, wait approximately five seconds until the red program light (Fig. 3, Item #F) goes off. The computer will retain the original programmed positions.

A vinyl sheet with pictorials depicting different table positions has been included in the warranty envelope. The labels can be placed on the program button area for easy identification of programmed positions.

TABLE FEATURES

PENDANT HAND CONTROL: A cord-connected hand control which will operate all four table functions as well as eight memory positions is standard. This unit places all controls, with the exception of the "Program" input and "Auto Return/ Stop" buttons, at your fingertips.

The hand control can be connected to either of two receptacles mounted on the 411. The first is located on the bottom of the control console (Fig. 5, Item #B). The second is on the table base next to the power cord entrance (Fig. 6, Item #A).

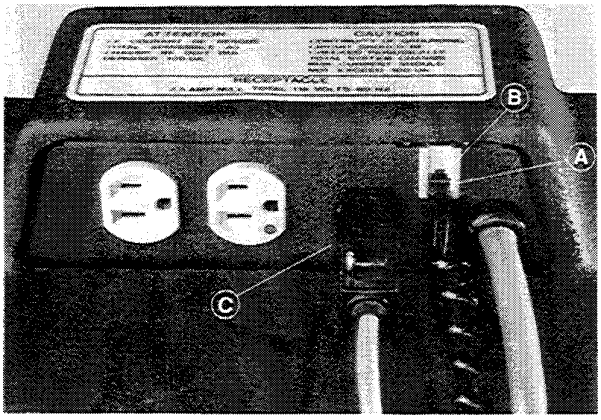

FIG. 6

To connect the hand control to a receptacle, align plug tab with notch on receptacle (Fig. 6, Item #B) and press plug into position.

To remove plug, depress tab (Fig. 6, Item #B) and pull plug from receptacle.

FOOTSWITCH (Optional): The footswitch control connects to the table base next to the power cord entrance (Fig. 6, Item #C).

DANGER

KEEP ALL FOREIGN OBJECTS AWAY FROM THE FOOTSWITCH SO THAT THE PEDALS ARE NOT ACCIDENTALLY ACTIVATED. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE TABLE.

To connect foot control to receptacle, align plug tabs with receptacle and press plug into position. The plug will only go on in one direction.

To remove plug, depress tabs on each side of plug and pull from receptacle.

PROCTO KNEE REST: The stored position of the procto knee rest is illustrated in Fig. 7. To remove the knee rest, lift levers (Fig. 7, Item #A) on each side of knee rest. This releases the locking mechanism allowing for removal of knee rest.

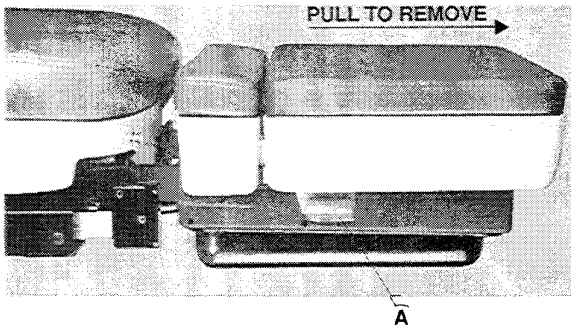

FIG. 7

The foot/leg section provides four (4) procto knee rest positions (Fig. 8, Item #A). To install the knee rest into either of these positions, align the metal guides (Fig. 9, Item #A) with slots (Fig. 8, Item #A) and insert until you hear the mechanical locking device engage.

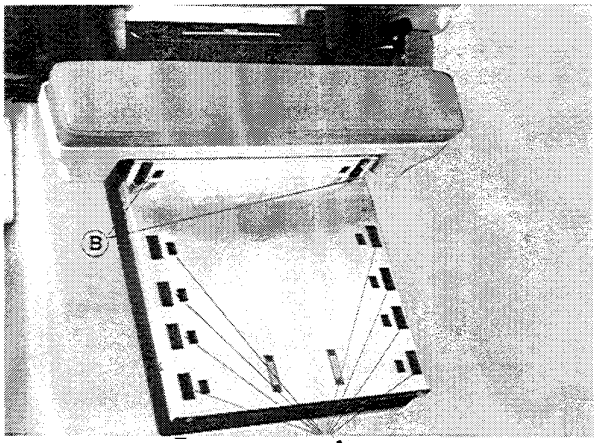

FIG. 8

DANGER

FAILURE TO LOCK THE KNEE REST SUPPORT INTO POSITION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.

Removal of the knee rest from a procto position is the same as removal from the stored position. Lift levers (Fig. 7, Item #A) on each side of knee rest. To return the knee support to its stored position, align metal guides (Fig. 9, Item #A) with slots (Fig. 8, Item #B) and insert until you hear the mechanical locking device engage.

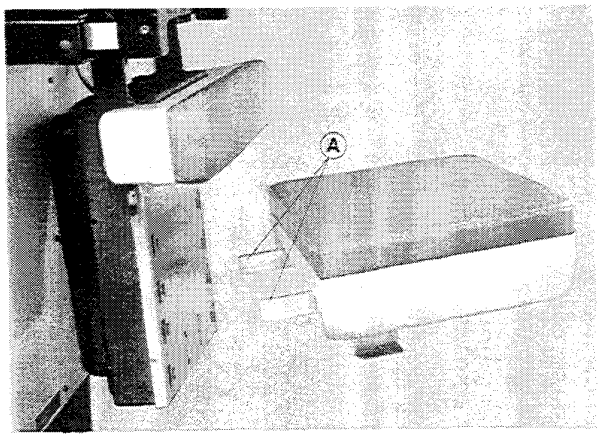

FIG. 9

DANGER

FAILURE TO LOCK THE KNEE REST SUPPORT INTO POSITION COULD RESULT IN PERSONAL INJURY OR EQUIPMENT DAMAGE.

STIRRUP ADJUSTMENT: Grasp end of stirrup assembly (Fig. 10, Item #A). Pull stirrups straight out of the table to full extension. Unfold stirrup to an erect position as shown (Fig. 10).

LATERAL (WIDTH) ADJUSTMENT: The Model 411 has three (3) lateral positions for both R.H. and L.H. stirrups.

To adjust lateral positioning, lift stirrup assembly at Point A, Fig. 10, and then rotate assembly to right or left. The stirrup mechanism will “click” into position as it is rotated.

When the desired position is attained, lower stirrup (Fig. 10, Point A) to engage width locking mechanism. Check that lateral (width) locking mechanism is engaged by attempting to rotate stirrup assembly without lifting at Point A, Fig. 10

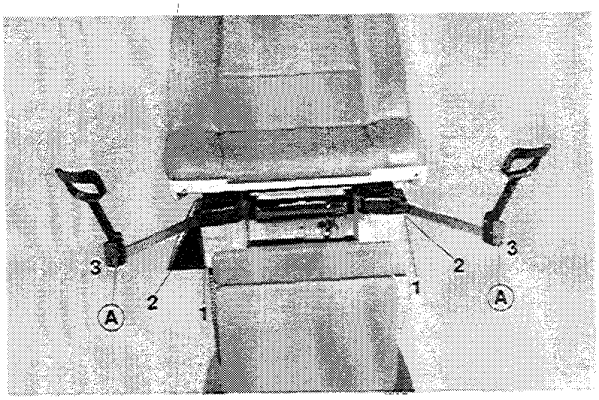

FIG. 10

EXTENSION ADJUSTMENT: Stirrup extension length is adjusted by holding stirrup at Point A, Fig. 10, and sliding stirrup assembly in and out of table. Check that lateral (width) locking mechanism is engaged by attempting to rotate stirrup assembly without lifting at Point A, Fig. 10.

DANGER

FAILURE TO ENGAGE LATERAL LOCKING MECHANISM COULD RESULT IN PERSONAL INJURY.

STORING STIRRUPS AFTER USE: Extend stirrup assemblies to full extension, fold stirrups down against bar, rotate stirrups to Position #1, Fig. 10, and slide complete assembly into table.

IRRIGATION PAN: A stainless steel irrigation pan is located between the stirrups as shown in Fig. 11, Item #A. The pan slide assembly extends easing from the table by grasping and pulling handle, Fig. 11, Item #B, and will automatically stop when extended to its full out position.

The irrigation pan may be removed from the slide assembly by lifting evenly at Points C, Fig. 11. To replace the pan, align and press firmly into slide assembly.

Note

A safety switch prevents operation of the foot/ leg rest when the irrigation pan is extended. Should operation of the power foot/ leg rest be impossible, check that the irrigation pan is in its fully stored position.

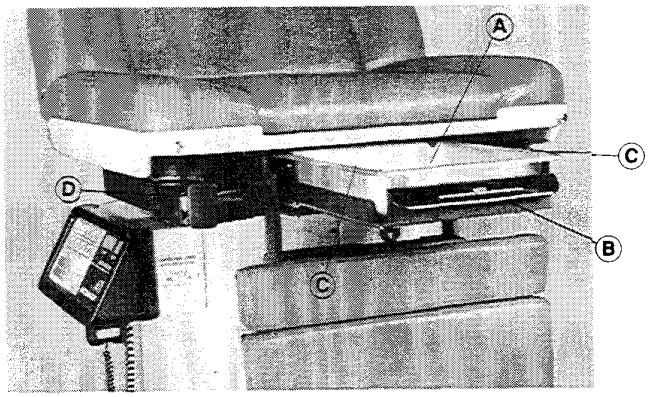

FIG. 11

PAPER ROLL: Storage for two standard 18” wide x 3”diameter paper rolls is conveniently provided under the upper portion of the back section (Fig. 12).

Access to the paper roll storage area is accomplished by sliding the holder out from under the back section toward the headrest. it is best to do this with the back section in a horizontal position.

Insert paper roll, return holder to stored position allowing paper to drape out of holder. Paper can now be dispensed and positioned over upholstered area of table.

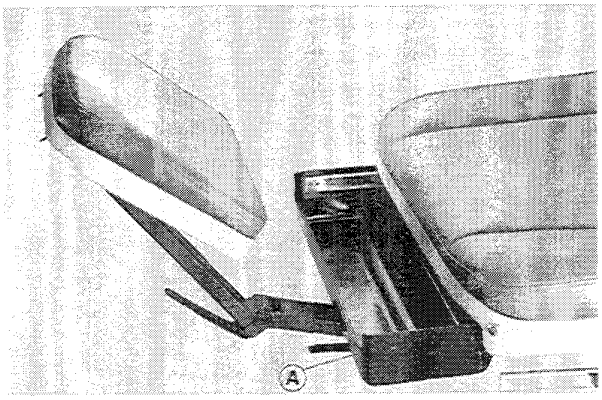

FIG. 12

HEADLOCK ADJUSTMENT: To adjust the holding action of the headlock, release the lock handle and loosen the lock screw using a 3/32" allen wrench, Fig. 13, Item #A. Tighten the adjusting screw, Fig. 13, Item #B, with a 3/1 6"allen wrench or a 1/2" wrench to obtain the greatest possible holding power without making the handle operation too difficult. Then with the handle in locked position, tighten the lock screw, Fig. 13, Item #A.

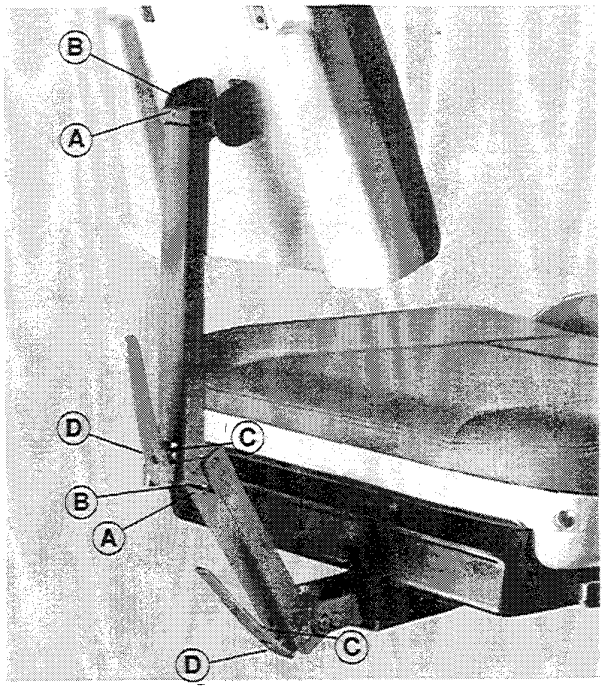

FIG. 13

Note

Light oil on the pivot points of the handle will help to a great degree the ease of operation of the handle.

In some rare cases, it may be necessary to adjust the handle stop to insure good holding power with ease of handle operation or to prevent the handle from springing loose under shock loads.

For proper action the handle stop must be adjusted so that when the handle is pushed down for locking action, the handle reaches a point where it wants to lock itself by suddenly going over center. The proper position of the stop is just a fraction over center. The stop is adjusted by loosening the lock nut, Item #C, Fig. 13, and turning the set screw stop Item #D, Fig. 13, with a 1/8" allen wrench. After adjustment, lock the stop screw with the lock nut, Fig. 13, Items #C & #D.

CARE OF TABLE

CARE OF UPHOLSTERY: The upholstery material used to cover the top of the table is resistant to most medicinal-type stains but may be damaged by solvents and dyes. Regular care should be maintained by daily wiping with a damp cloth or sponge and periodic cleaning with a mild soap and water solution

Any fluid spilled on the upholstery should be removed as quickly as possible.

In the case of stain. attempt to remove it with soap and water.

CARE OF PAINTED METAL SURFACES: All painted metal surfaces should be wiped clean with a clean, soft cloth weekly and periodic applications of paste wax made to all smooth painted surfaces to preserve the finished luster.

CARE OF BRIGHT METAL SURFACES: All bright metal surfaces should be wiped weekly with a clean, damp cloth. Moving parts such as stirrup bars can be lubricated using a standard household furniture wax. Lubricant will allow free movement of sliding parts and reduce possibility of noise.

CARE OF MOVING PARTS: All moving parts such as the tilt pivot and foot extension pivot pins, back hinge, and stirrup indexing button (Fig. 11, Item #D), should be oiled occasionally with a light machine oil to help insure quiet, smooth, dependable operation.

MAINTENANCE

Little routine maintenance is required other than a periodic inspection of electrical cords to make sure they are free of cuts or damage and clear of moving parts. Due to the mechanical, electrical nature of this equipment, periodic inspections at six (6) month intervals by your dealer are recommended.

DANGER

FAILURE TO PERFORM **PERIODIC INSPECTION COULD** RESULT **IN** PERSONAL **INJURY OR EQUIPMENT DAMAGE.**

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LIMITED EQUIPMENT WARRANTY

The Company shall repair or replace any products or parts thereof, which prove to be defective in workmanship and/or material. Except as it may otherwise specifically agree in writing the Company shall not be liable for transportation, labor or other charges for adjustments, repairs, replacement parts, installation or other work which may be done upon or in connection with such products by the Company's authorized Dealers or others.

Any part or parts of a product to be repaired or replaced under this limited warranty must be returned to the factory f.o.b.

This warranty does not apply to any part or product which examination discloses has been misused, abused, altered or tampered with in any way. This warranty shall be in effect for a period of twelve months from the date of shipment to the customer.

In no event shall the company be liable for consequential or special damages in the event of warranty repair or replacement of its products.

THE FOREGOING IS IN LIEU OF ALL WARRANTIES EXPRESSED OR IMPLIED, AND ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF THE COMPANY.

MIDMARK®
Medical Products
Midmark Corporation. Versailles. Ohio 45380
937-526-3662 **FAX 937-526-5542**